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URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-BN-W.No.06-2016-17 Date: 20.05.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.B.Narayanaswamy,** Contractor, Bangalore.
NAME OF THE WORK	:	Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

AE-06
n/a

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Job No.: CECTC-BN-W.No.06-2016-17 Date : 20.05.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of Work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Date of Testing : 20.05.2016

Material : Sand Total Wt. of Aggregates in gms **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	5.87	5.87	94.1	90-100
2.36	231	15.40	21.27	78.7	75-100
1.18	285	19.00	40.27	59.7	55-90
600 Micron	234	15.60	55.87	44.1	35-59
300 Micron	311	20.73	76.60	23.4	8-30
150 Micron	216	14.40	91.00	9.0	0-10

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-BN-W.No.06-2016-17 Date : 20.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of Work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Date of Testing : 20.05.2016

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	481	3.21	3.21	96.79	95-100
20	8362	55.75	58.95	41.05	30-70
10	3269	21.79	80.75	19.25	10-35
4.75	2514	16.76	97.51	2.49	0-5

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Job No.: CECTC-BN-W.No.06-2016-17 Date : 20.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of Work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Date of Testing : 20.05.2016

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2385	47.7	51.7	48.3	25-55
4.75	1956	39.1	90.8	9.2	0-10

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Job No.: CECTC-BN-W.No.06-2016-17 Date: 21.05.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of Work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Sample Identification : 8mm, 10mm, 12mm, TMT Fe 500 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 21.05.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.395	535	559	15.0
2	Fe 500	10	0.620	546	565	16.0
3	Fe 500	12	0.887	558	581	17.0

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AE-06 n/a

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Job No.: CECTC-BN-W.No.06-2016-17 Date: 24.05.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.B.Narayanaswamy,** Contractor, Bangalore.
NAME OF THE WORK	:	Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016
SAMPLE ID	:	BRICKS
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	3.85 N/mm^2	Class designation 3.5
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	11.60 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class

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AE-06 n/a

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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Job No.: CECTC-BN-W.No.06-2016-17 Date: 22.06.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of the work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2016	22.06.2016	8.165	485.3	21.57
2	25.05.2016	22.06.2016	8.125	498.2	22.14
3	25.05.2016	22.06.2016	8.147	512.4	22.77

AE-06 n/a

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Job No.: CECTC-BN-W.No.06-2016-17 Date: 22.06.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.B.Narayanaswamy,** Contractor, Bangalore.

Name of the work : Repair & Painting Works at Sub Division Office Dasarahalli in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/04/2016-17 Dated:26.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2016	22.06.2016	8.141	536.2	23.83
2	25.05.2016	22.06.2016	8.132	509.1	22.63
3	25.05.2016	22.06.2016	8.147	527.1	23.43

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